Dual Triode

With High-Mu Unit and Low-Mu Unit

NOVAR TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings *(Design-Maximum Values):*

Voltage (AC or DC)	6.3 ± 0.600	volts
Current at heater volts = 6.3	0.985	amp
Peak heater-cathode voltage (Each unit):		
Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200[a] max.	volts

Direct Interelectrode Capacitances (Approx.):

	Unit No. 1	*Unit No. 2*	
Grid to plate	4.6	9.0	pf
Grid to cathode and heater	2.4	6.5	pf
Plate to cathode and heater	0.26	1.4	pf

Characteristics, Class A_1 Amplifier:

	Unit No. 1	*Unit No. 2*	
Plate Voltage	250	150	volts
Grid Voltage	-3	-20	volts
Amplification Factor	64	5.4	
Plate Resistance (Approx.)	40000	750	ohms
Transconductance	1600	7200	μmhos
Plate Current	1.4	50	ma
Plate Current for plate volts = 60 and grid volts = 0	–	95	ma
Plate Current for grid volts = -28	–	10	ma
Grid Voltage (Approx.) for plate μa = 10	-5.5	–	volts
Grid Voltage (Approx.) for plate μa = 100	–	-45	volts

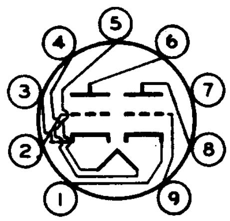
Mechanical:

Operating Position	Any
Type of Cathodes	Coated Unipotential
Maximum Overall Length	3.00"
Maximum Seated Length	2.62"
Length, Base Seat to Bulb Top (Excluding Tip)	2.10" to 2.28"
Diameter	1.062" to 1.188"
Bulb	T9
Base	Small-Button Novar 9-Pin (JEDEC No.E9-75)

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Basing Designation for BOTTOM VIEW. 9QD

Pin 1 - Cathode of Unit No. 1
Pin 2 - Grid of Unit No. 2
Pin 3 - Cathode of Unit No. 2
Pin 4 - Heater
Pin 5 - Heater



Pin 6 - Plate of Unit No. 2
Pin 7 - No Internal Connection
Pin 8 - Plate of Unit No. 1
Pin 9 - Grid of Unit No. 1

VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No. 1

Maximum Ratings, *Design-Maximum Values:*

For operation in a 525-line, 30-frame system[b]

DC PLATE VOLTAGE	330	max.	volts
PEAK NEGATIVE PULSE-GRID VOLTAGE	400	max.	volts
CATHODE CURRENT:			
Peak	77	max.	ma
Average	22	max.	ma
PLATE DISSIPATION	1.5	max.	watts

Maximum Circuit Values:

Grid-Circuit Resistance:			
For grid-resistor-bias or cathode-bias operation	2.2	max.	megohms

VERTICAL-DEFLECTION AMPLIFIER

Values are for Unit No. 2

Maximum Ratings, *Design-Maximum Values Except as Noted:*

For operation in a 525-line, 30-frame system[b]

DC PLATE VOLTAGE	330	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE (Absolute-maximum value)[c]	1500[d]	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE	250	max.	volts
CATHODE CURRENT:			
Peak	175	max.	ma
Average	50	max.	ma
PLATE DISSIPATION	11	max.	watts

Maximum Circuit Values:

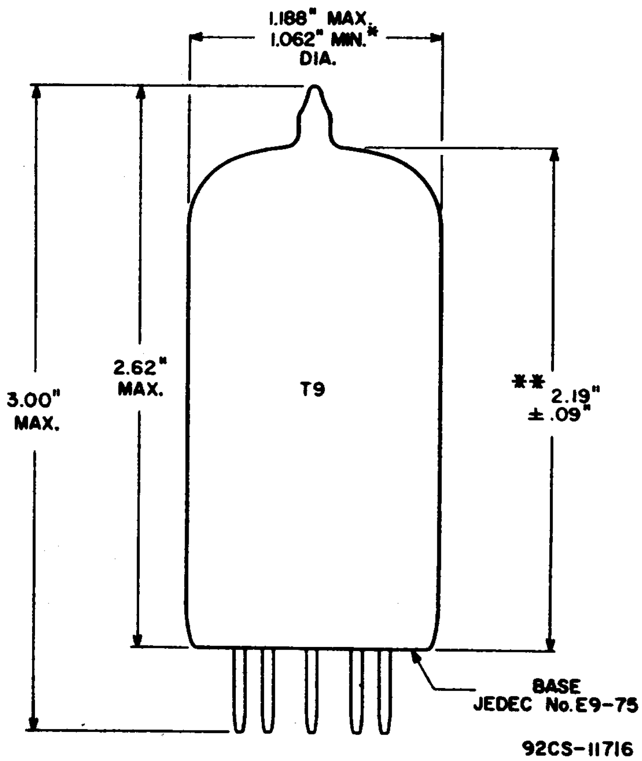
Grid-Circuit Resistance:			
For grid-resistor-bias operation	2.2	max.	megohms
For cathode-bias operation	2.2	max.	megohms

[a] The dc component must not exceed 100 volts

[b] As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations" Federal Communications Commission.

[c] This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.

[d] Under no circumstances should this absolute-maximum value be exceeded.

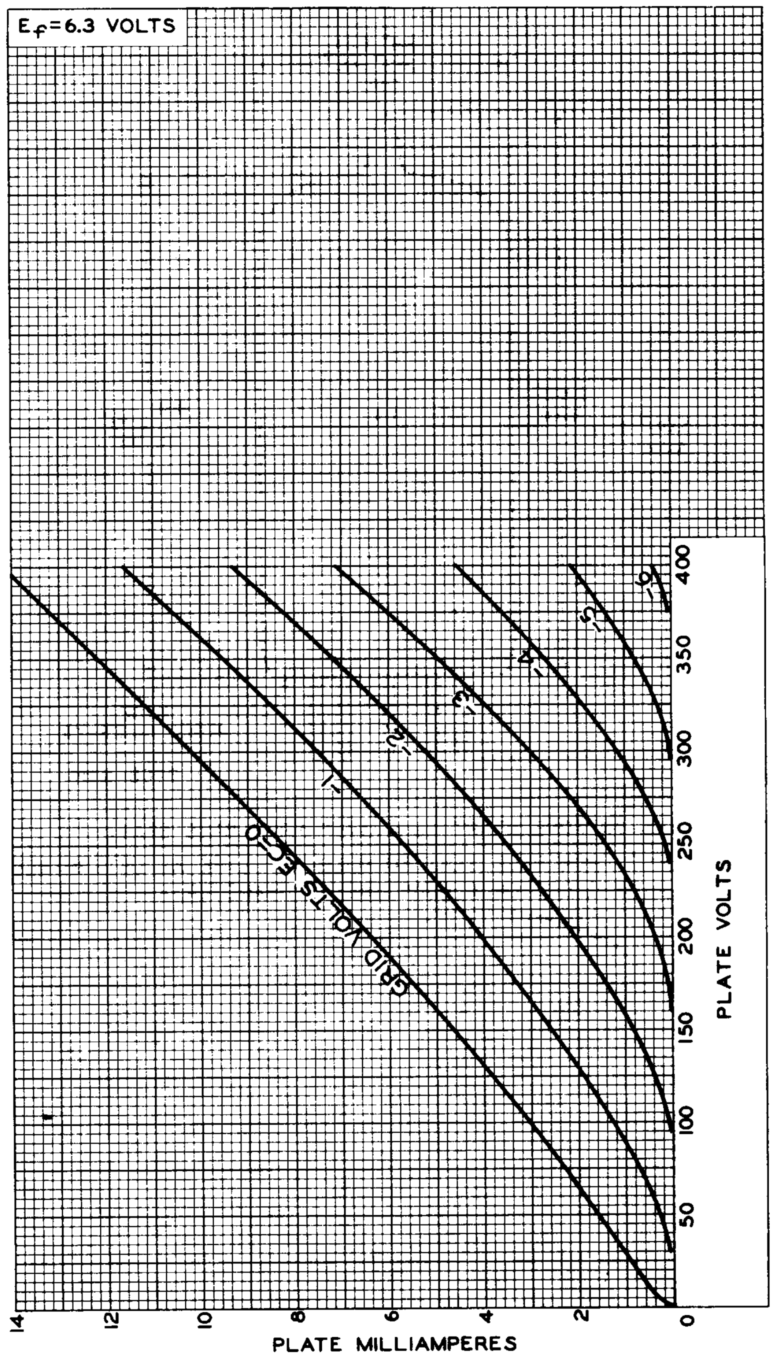


* APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.

** MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.600" INSIDE DIAMETER.

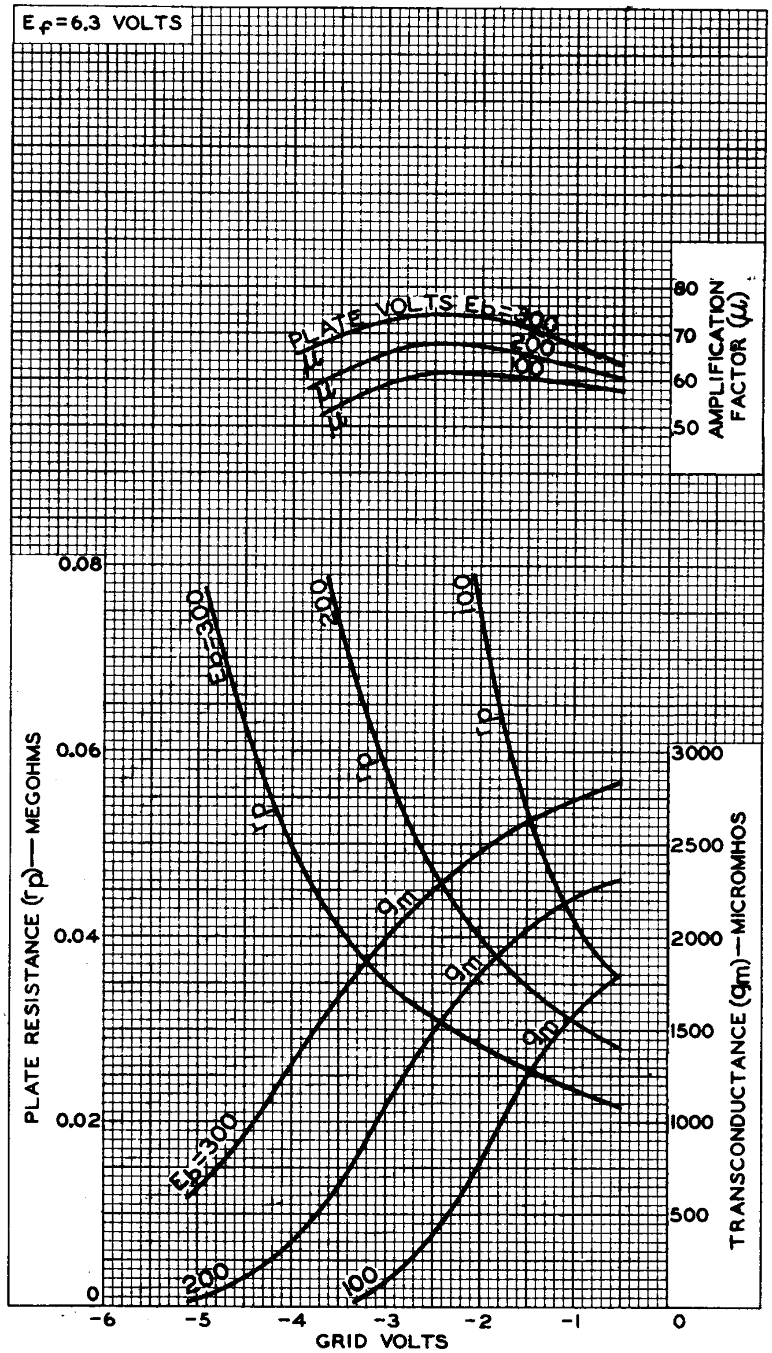
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AVERAGE PLATE CHARACTERISTICS
Unit No.1



92CM-9912

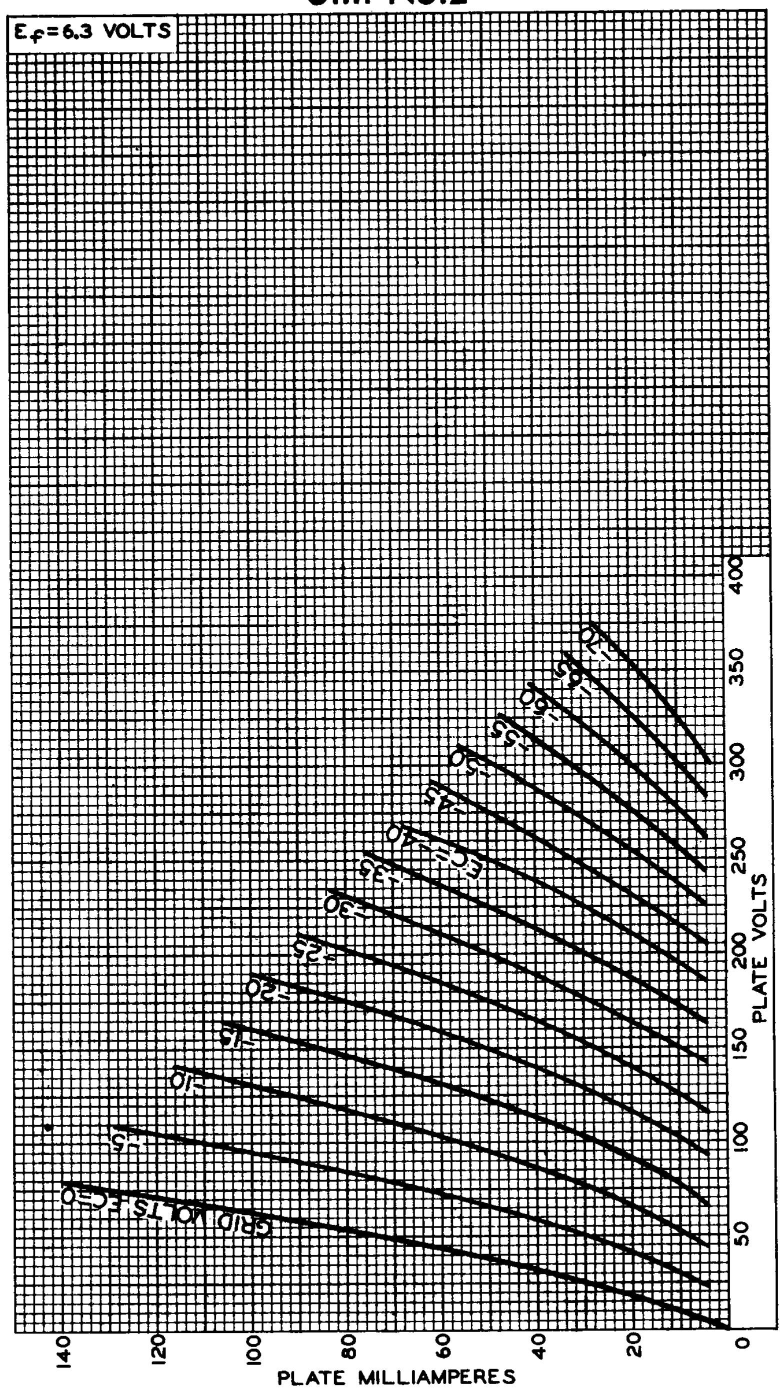
AVERAGE CHARACTERISTICS
Unit No.1



92CM-9915R1

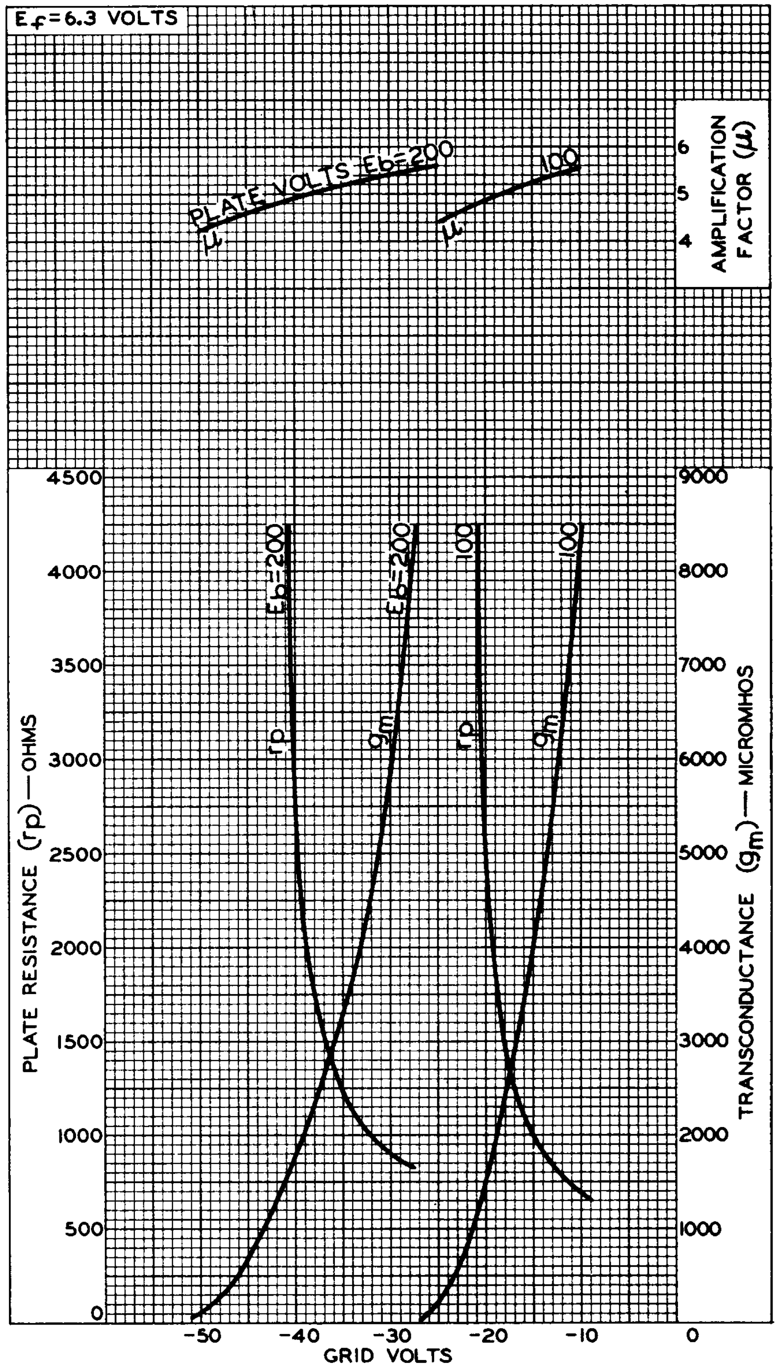
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AVERAGE PLATE CHARACTERISTICS
Unit No.2



92CM-10466

AVERAGE CHARACTERISTICS
Unit No.2



92CM-10467